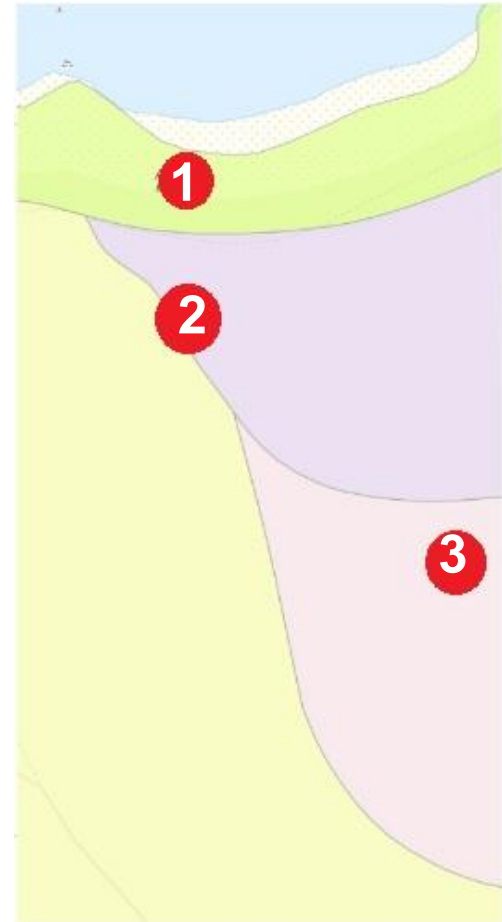




Study area



Research questions and Hypothesis

- What is the correlation between soil color and composition?
 - What is the correlation between salinity of the soil and distance from the sea?
 - Do our findings line up with existing soil and geological maps?
-
- Red soil and sand contain a larger concentration of iron.
 - Sites closer to the sea contain more salt traces based on Sr concentration.
 - Existing maps are accurate.

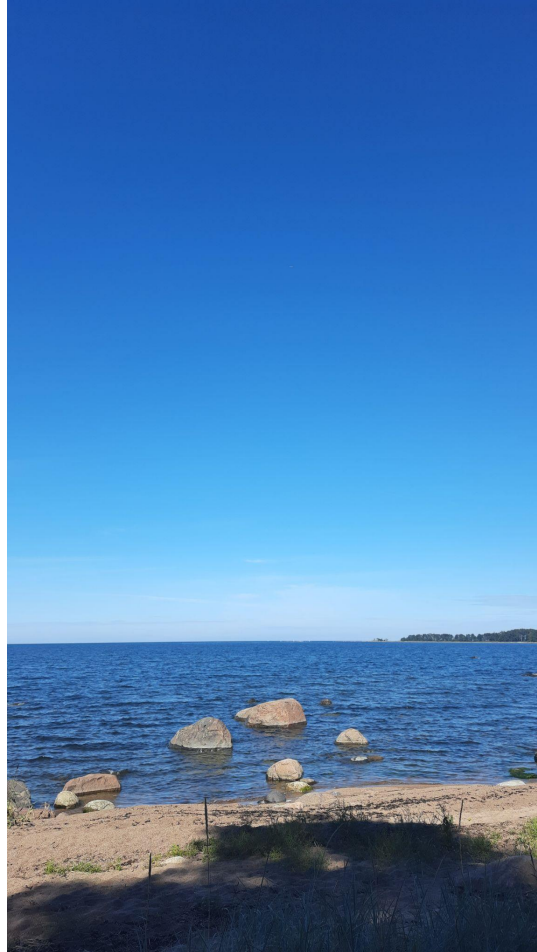
Site 1

Our classification:

Sand with some biomass

Soil map classification:

Salty primitive soil



Site 2

Our classification:

Podzol

Soil map classification:

Podzol



Site 3

Our classification:

Gleyed Podzol with gravel

Soil map classification:

Gleyed Podzol



Data analysis

- Determined Munsel colour code of soil
- Comparing the results with X-ray machine



- Iron content IS in correlation with the colour
- Number before YR: smaller number = bigger iron content
- By the numbers behind the code we can interpret the content within the same colour scheme
- First by last number and then by middle number - Increase in value = increase in iron content

- The soils on the coast have less strontium



Results

- What is the correlation between soil color and composition?
 - What is the correlation between salinity of the soil and distance from the sea?
 - Do our findings line up with existing soil maps?
-
- There is correlation between Munsel colour scale and iron content
 - Sites closer to the sea contained less Strontium than sites further away.
 - Yes, existing maps are accurate.